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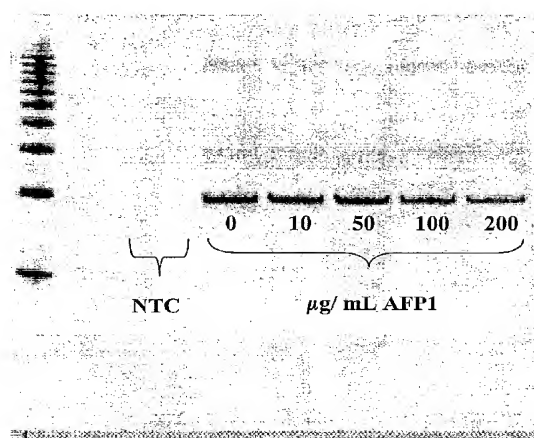
**Declarations under Rule 4.17:**

— as to the identity of the inventor (Rule 4.17(i)) for all des-  
ignations

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(54) Title: ANTI-FREEZE PROTEIN ENHANCED NUCLEIC ACID AMPLIFICATION

## Real-Time PCR Titration with AFP1



50ug/mL AFP1 is the highest concentration that  
does not affect product yield.

(57) Abstract: Methods and compositions are provided for enhanced signal intensity and storage stability of standard nucleic acid amplification buffers, real-time PCR buffers or both. Buffers in accordance with the present invention include anti-freeze protein(s) (AFPs), optionally with a carrier protein, such as BSA.

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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*
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